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<p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				Complete if Known	
				Application Number	10/621,485
				Filing Date	July 16, 2003
				First Named Inventor	Mueckler et al.
				Art Unit	1614
				Examiner Name	Susan Emily Fernandez
Sheet	1	of	6	Attorney Docket Number	56029-41936

U.S. PATENT DOCUMENTS					
Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
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FOREIGN PATENT DOCUMENTS					
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			
AA	AA	ALESSI, D. et al., Mechanism of Activation of Protein Kinase B by Insulin and IGF-1, The EMBO Journal, 1996, 15 (23): 6541-6551			
AB	AB	ALESSI, D. et al., 3-Phosphoinositide-Dependent Protein Kinase-1 (PDK1): Structural and Functional Homology with the <i>Drosophila</i> DSTPK61 Kinase, Current Biology, September 18, 1997, 7 (10): 776-789			
AC	AC	ALESSI, D. et al., Characterization of a 3-Phosphoinositide-Dependent Protein Kinase Which Phosphorylates and Activates Protein Kinase Ba, Current Biology, March 19, 1997, 7 (4): 261-269			
AD	AD	BALENDRAN, A. et al., PDK1 Acquires PDK2 Activity in the Presence of a Synthetic Peptide Derived from the Carboxyl Terminus of PRK2, Current Biology, April 8, 1999, 9 (8): 393-404, S1-S3			
AE	AE	BEHN-KRAPPA and NEWTON, The Hydrophobic Phosphorylation Motif of Conventional Protein Kinase C is Regulated by Autophosphorylation, Current Biology, June 30, 1999, 9 (14): 728-737			
AF	AF	BRAZIL and HEMMINGS, Ten Years of Protein Kinase B Signalling: A Hard Act to Follow, TRENDS in Biochemical Sciences, November 2001, 26 (11): 657-664			

Examiner Signature	<i>dmz</i>	Date Considered	2-24-05
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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JJ	AG	CALDERHEAD, D. et al., Insulin Regulation of the Two Glucose Transporters in 3T3-L1 Adipocytes, The Journal of Biological Chemistry, August 15, 1990, 285 (23): 13800-13808				
JJ	AH	CLARK, S. et al., Intracellular Localization of Phosphatidylinositide 3-Kinase and Insulin Receptor Substrate-1 in Adipocytes: Potential Involvement of a Membrane Skeleton, The Journal of Cell Biology, March 9, 1998, 140 (5): 1211-1225				
JJ	AI	COFFER, P. et al., Protein Kinase B (c-Akt): A Multifunctional Mediator of Phosphatidylinositol 3-Kinase Activation, Biochem. J., 1998, Great Britain, 335: 1-13				
JJ	AJ	CLARKE, J. et al., Research Communication – Inhibition of the Translocation of GLUT1 and GLUT4 in 3T3-L1 Cells by the Phosphatidylinositol 3-Kinase Inhibitor, Wortmannin, Biochem. J., 1994, Great Britain, 300: 631-635				
JJ	AK	CRITCHLEY, David R., Focal Adhesions – the Cytoskeletal Connection, Current Opinion in Cell Biology, 2000, 12: 133-139				
JJ	AL	CURRIE, R. et al., Role of Phosphatidylinositol 3,4,5-Trisphosphate in Regulating the Activity and Localization of 3-Phosphoinositide-Dependent Protein Kinase-1, Biochem. J., 1999, Great Britain, 337: 575-583				
JJ	AM	DEDHAR, S. et al., Integrin-Linked Kinase (ILK): A Regulator of Integrin and Growth-Factor Signalling, <i>trends in CELL BIOLOGY</i> , August 1999, 9: 319-323				
JJ	AN	DELCOMMENNE, M. et al., Phosphoinositide-3-OH Kinase-Dependent Regulation of Glycogen Synthase Kinase 3 and Protein Kinase B/AKT by the Integrin-Linked Kinase, Proc. Natl. Acad. Sci. USA, Cell Biology, September 1998, 95: 11211-11216				
JJ	AO	DENU and TANNER, Specific and Reversible Inactivation of Protein Tyrosine Phosphatases by Hydrogen Peroxide: Evidence for a Sulfinic Acid Intermediate and Implications for Redox Regulation, Biochemistry, 1998, 37: 5633-5642				
JJ	AP	EBINA, Y. et al., The Human Insulin Receptor cDNA: The Structural Basis for Hormone-Activated Transmembrane Signalling, Cell, April 1985, 40: 747-758				
JJ	AQ	ENDEMANN, G. et al., Phosphatidylinositol Kinase or an Associated Protein Is a Substrate for the Insulin Receptor Tyrosine Kinase, The Journal of Biological Chemistry, January 5, 1990, 265 (1): 396-400				

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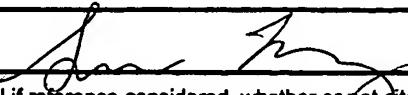
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JH	AR	GAREN and LEVINTHAL, A Fine-Structure Genetic and Chemical Study of the Enzyme Alkaline Phosphatase of <i>E. Coli</i> , <i>Biochim. Biophys. Acta</i> , 1960, 38: 470-483			T ²
JH	AS	GORDON, Julius A., Use of Vanadate as Protein-Phosphotyrosine Phosphatase Inhibitor, <i>Methods in Enzymology</i> , 1991, 201: 477-483			
JH	AT	HELLER-HARRISON, R. et al., Insulin Regulation of Membrane-Associated Insulin Receptor Substrate 1, <i>The Journal of Biological Chemistry</i> , October 13, 1995, 270 (41): 24442-24450			
JH	AU	HILL, M. et al., A Role for Protein Kinase B β /Akt2 in Insulin-Stimulated GLUT4 Translocation in Adipocytes, <i>Molecular and Cellular Biology</i> , Nov. 1999, 19 (11): 7771-7781			
JH	AV	INOUE, G. et al., Development of an <i>In Vitro</i> Reconstitution Assay for Glucose Transporter 4 Translocation, <i>PNAS</i> , December 21, 1999, 96 (26): 14919-14924			
JH	AW	JAMES, D. et al., Molecular Cloning and Characterization of an Insulin-Regulatable Glucose Transporter, <i>Nature</i> , 1989, 338: 83-87			
JH	AX	JARETT, Leonard, Subcellular Fractionation of Adipocytes, <i>Methods Enzymol</i> 31: 60-71			
JH	AY	KELLY and RUDERMAN, Insulin-Stimulated Phosphatidylinositol 3-Kinase – Association with a 185-kDa Tyrosine-Phosphorylated Protein (IRS-1) and Localization in a Low Density Membrane Vesicle, <i>The Journal of Biological Chemistry</i> , February 25, 1993, 268 (6): 4391-4398			
JH	AZ	KHWAJA, A. et al., Matrix Adhesion and Ras Transformation Both Activate a Phosphoinositide 3-OH Kinase and Protein Kinase B/Akt Cellular Survival Pathway, <i>The EMBO Journal</i> , 1997, 16 (10): 2783-2793			
JH	BA	LAVAN and LIENHARD, The Insulin-Elicited 60-kDa Phosphotyrosine Protein in Rat Adipocytes is Associated with Phosphatidylinositol 3-Kinase, <i>The Journal of Biological Chemistry</i> , March 16, 1993, 268 (8): 5921-5928			
JH	BB	LAWLOR and ALESSI, PKB/Akt: A Key Mediator of Cell Proliferation, Survival and Insulin Responses?, <i>Journal of Cell Science</i> , 2001, 114: 2903-2910			

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<i>JF</i>	BC	LYNCH, et al., Integrin-Linked Kinase Regulates Phosphorylation of Serine 473 of Protein Kinase B by an Indirect Mechanism, Oncogene, 1999, 18: 8024-8032			²
<i>JF</i>	BD	McDONALD, J. et al., Ability of Insulin to Increase Calcium Binding by Adipocyte Plasma Membranes, Proceedings of the National Academy of Sciences of the United States of America, May 1976, 73 (5): 1542-1546			
<i>JF</i>	BE	PERSAD, S. et al., Regulation of Protein Kinase B/Akt-Serine 473 Phosphorylation by Integrin-Linked Kinase – Critical Roles for Kinase Activity and Amino Acids Arginine 211 and Serine 343, The Journal of Biological Chemistry, July 20, 2001, 276 (29): 27462-27469			
<i>JF</i>	BF	PIPER, R. et al., Differential Sorting of Two Glucose Transporters Expressed in Insulin-Sensitive Cells, Am. J. Physiol., 1991, 260 (Cell Physiol. 29): C570-C580			
<i>JF</i>	BG	REED, B. et al., Alterations in Insulin Binding Accompanying Differentiation of 3T3-L1 Preadipocytes, Proceedings of the National Academy of Sciences of the United States of America, Nov. 1977, 74 (11): 4876-4880			
<i>JF</i>	BH	RICE, K. et al., Regulation of Expression of pp160, a Putative Insulin Receptor Signal Protein, by Insulin, Dexamethasone, and 1-Methyl-3-Isobutyxanthine in 3T3-L1 Adipocytes, The Journal of Biological Chemistry, May 15, 1992, 267 (14): 10163-10167			
<i>JF</i>	BI	RUBIN, C. et al., Acquisition of Increased Hormone Sensitivity During <i>in Vitro</i> Adipocyte Development, The Journal of Biological Chemistry, May 25, 1977, 252 (10): 3554-3557			
<i>JF</i>	BJ	RUDERMAN, N. et al., Activation of Phosphatidylinositol 3-Kinase by Insulin, Proc. Natl. Acad. Sci., February 1990, 87 (Cell Biology): 1411-1415			
<i>JF</i>	BK	SALTIEL and KAHN, Insulin Signalling and the Regulation of Glucose and Lipid Metabolism, Nature, 2001, 414: 799-806			
<i>JF</i>	BL	SCHLEMMER and SIROTKA, Energy-Dependent Efflux of Methotrexate in L1210 Leukemia Cells – Evidence for the Role of an ATPase Obtained with Inside-Out Plasma Membrane Vesicles, The Journal of Biological Chemistry, July 25, 1992, 267 (21): 14746-14752.			
<i>JF</i>	BM	SEALS, J. et al., Insulin Effect on Protein Phosphorylation of Plasma Membranes and Mitochondria in a Subcellular System from Rat Adipocytes, The Journal of Biological Chemistry, August 10, 1979, 254 (15): 6991-6996			

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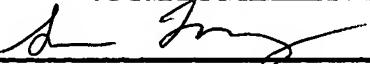
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SH	BN	SHEPHERD, P. et al., Phosphoinositide 3-Kinase: The Key Switch Mechanism in Insulin Signalling, <i>Biochem. J.</i> , 1998, Great Britain, 333: 471-490				
SH	BO	SIMPSON, I. et al., Insulin-Stimulated Translocation of Glucose Transporters in the Isolated Rat Adipose Cells: Characterization of Subcellular Fractions, <i>Biochimica et Biophysica Acta</i> , 1983, 763: 393-407				
SH	BP	SUMMERS, S. et al., Differentiation-Dependent Suppression of Platelet-Derived Growth Factor Signaling in Cultured Adipocytes, <i>The Journal of Biological Chemistry</i> , August 20, 1999, 274 (34): 23858-23867				
SH	BQ	TAKAKURA, K. et al., Rapid and Irreversible Inactivation of Protein Tyrosine Phosphatases PTP1B, CD45, and LAR by Peroxynitrite, <i>Archives of Biochemistry and Biophysics</i> , September 15, 1999, 369 (2): 197-207				
SH	BR	TOKER, A. et al., Cellular Signaling: Pivoting Around PDK-1, <i>Cell</i> , October 13, 2000, 103: 185-188				
SH	BS	TOKER, A. et al., Akt/Protein Kinase B is Regulated by Autophosphorylation at the Hypothetical PDK-2 Site, <i>The Journal of Biological Chemistry</i> , March 24, 2000, 275 (12): 8271-8274				
SH	BT	TORDJMAN, K. et al., Differential Regulation of Two Distinct Glucose Transporter Species Expressed In 3T3-L1 Adipocytes: Effect of Chronic Insulin and Tolbutamide Treatment, <i>Proceedings of the National Academy of Sciences of the United States of America</i> , October 15, 1989, 86 (20): 7761-7765				
SH	BU	ULLRICH, A. et al., Human Insulin Receptor and Its Relationship to the Tyrosine Kinase Family of Oncogenes, <i>Nature</i> , February 28, 1985, 313: 756-761				
SH	BV	VANHAESEBROECK and ALESSI, The PI3K-PDK1 Connection: More Than Just a Road to PKB, <i>Biochem. J.</i> , 2000, Great Britain, 346: 561-576				
SH	BW	WATSON, R. et al, Lipid Raft Microdomain Compartmentalization of TC10 is Required for Insulin Signaling and GLUT4 Translocation, <i>The Journal of Cell Biology</i> , August 20, 2001, 154 (4): 829-840				
SH	BX	WHITE, Morris F., The IRS-Signalling System: A Network of Docking Proteins that Mediate Insulin Action, <i>Molecular and Cellular Biochemistry</i> , 1998, 182: 3-11				

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AA	BY	WHITE and KAHN, The Insulin Signaling System, The Journal of Biological Chemistry, January 7, 1994, 269 (1): 1-4				
AA	BZ	WILLIAMS, M. et al., The Role of 3-Phosphoinositide-Dependent Protein Kinase 1 in Activating AGC Kinases Defined in Embryonic Stem Cells, Current Biology, April 5, 2000, 10 (8): 439-448				
AA	CA	STEPHENS, L. et al., Protein Kinase B Kinases That Mediate Phosphatidylinositol 3,4,5-Trisphosphate-Dependent Activation of Protein Kinase B, Science, January 30, 2998, 279: 710-714				
AA	CB	KRIAUCIUNAS, K. et al., Cellular Compartmentalization in Insulin Action: Altered Signaling by a Lipid-Modified IRS-1, Molecular and Cellular Biology, Sept. 2000, 20 (18): 6849-6859				
AA	CC	INOUE, G. et al., Dynamics of Insulin Signaling in 3T3-L1 Adipocytes – Differential Compartmentalization and Trafficking of Insulin Receptor Substrate (IRS)-1 and IRS-2, The Journal of Biological Chemistry, May 8, 1998, 273 (19): 11548-11555				
AA	CD	CROSS, D. et al., Inhibition of Glycogen Synthase Kinase-3 by Insulin Mediated by Protein Kinase B, Nature, December 1995, 378: 785-789				
AA	CE	HOLGADO-MADRUGA, M. et al, A Grb2-Associated Docking Protein in EGF- and Insulin-Receptor Signalling, Nature, February 1996, 379: 560-563				

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